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### 1 [Scalable high-speed prefix matching](#)



Marcel Waldvogel, George Varghese, Jon Turner, Bernhard Plattner

November 2001 ACM Transactions on Computer Systems (TOCS), Volume 19 Issue 4

Publisher: ACM

 Full text available: [pdf\(933.02 KB\)](#)

 Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 16, Downloads (12 Months): 106, Citation Count: 5

Finding the longest matching prefix from a database of keywords is an old problem with a number of applications, ranging from dictionary searches to advanced memory management to computational geometry. But perhaps today's most frequent best matching ...

Key words: collision resolution, forwarding lookups, high-speed networking

### 2 [Pioneer: verifying code integrity and enforcing untampered code execution on legacy systems](#)



Arvind Seshadri, Mark Luk, Elaine Shi, Adrian Perrig, Leendert van Doorn, Pradeep Khosla

October 2005 SOSP '05: Proceedings of the twentieth ACM symposium on Operating systems principles

Publisher: ACM

 Full text available: [pdf\(264.30 KB\)](#)

 Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 28, Downloads (12 Months): 214, Citation Count: 5

We propose a primitive, called Pioneer, as a first step towards verifiable code execution on untrusted legacy hosts. Pioneer does not require any hardware support such as secure co-processors or CPU-architecture extensions. We implement Pioneer on an ...

Key words: dynamic root of trust, rootkit detection, self-check-summing code, software-based code attestation, verifiable code execution

### 3 [Pioneer: verifying code integrity and enforcing untampered code execution on legacy systems](#)



Arvind Seshadri, Mark Luk, Elaine Shi, Adrian Perrig, Leendert van Doorn, Pradeep Khosla

October 2005 ACM SIGOPS Operating Systems Review, Volume 39 Issue 5

Publisher: ACM

 Full text available: [pdf\(264.30 KB\)](#)

 Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 28, Downloads (12 Months): 214, Citation Count: 5

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processors or CPU-architecture extensions. We implement Pioneer on an ...

Keywords: dynamic root of trust, rootkit detection, self-check-summing code, software-based code attestation, verifiable code execution

#### 4 [The shunt: an FPGA-based accelerator for network intrusion prevention](#)



Nicholas Weaver, Vern Paxson, Jose M. Gonzalez

February 2007 FPGA '07: Proceedings of the 2007 ACM/SIGDA 15th international symposium on Field-programmable gate arrays

Publisher: ACM

Full text available: pdf(240.27 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 19, Downloads (12 Months): 185, Citation Count: 0

The sophistication and complexity of analysis performed by today's network intrusion prevention systems (IPSSs) benefits greatly from implementation using general-purpose CPUs. Yet the performance of such CPUs increasingly lags behind that necessary to ...

Keywords: FPGA, NIC, hardware acceleration, intrusion detection

#### 5 [Implementing an untrusted operating system on trusted hardware](#)



David Lie, Chandramohan A. Thekkath, Mark Horowitz

December 2003 ACM SIGOPS Operating Systems Review, Volume 37 Issue 5

Publisher: ACM

Full text available: pdf(280.87 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 26, Downloads (12 Months): 192, Citation Count: 17

Recently, there has been considerable interest in providing "trusted computing platforms" using hardware~---~TCPA and Palladium being the most publicly visible examples. In this paper we discuss our experience with building such a platform using a traditional ...

Keywords: XOM, XOMOS, untrusted operating systems

#### 6 [Implementing an untrusted operating system on trusted hardware](#)



David Lie, Chandramohan A. Thekkath, Mark Horowitz

October 2003 SOSP '03: Proceedings of the nineteenth ACM symposium on Operating systems principles

Publisher: ACM

Full text available: pdf(280.87 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

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Keywords: XOM, XOMOS, untrusted operating systems

#### 7 [Lightweight network support for scalable end-to-end services](#)



Kenneth L. Calvert, James Griffioen, Su Wen

August 2002 SIGCOMM '02: Proceedings of the 2002 conference on Applications, technologies, architectures, and protocols for computer communications

Publisher: ACM

Full text available:  pdf(331.84 KB)Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 9, Downloads (12 Months): 41, Citation Count: 13

Some end-to-end network services benefit greatly from network support in terms of utility and scalability. However, when such support is provided through service-specific mechanisms, the proliferation of one-off solutions tend to decrease the robustness ...

Keyw ords: end-to-end services, ephemeral state, programmable network, router achitecture

8 [Lightweight network support for scalable end-to-end services](#)

Kenneth L. Calvert, James Griffioen, Su Wen

October 2002 ACM SIGCOMM Computer Communication Review , Volume 32 Issue 4

Publisher: ACM

Full text available:  pdf(331.84 KB)Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 9, Downloads (12 Months): 41, Citation Count: 13

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Keyw ords: end-to-end services, ephemeral state, programmable network, router achitecture

9 [Communications of the ACM: Volume 51 Issue 1](#)

January 2008 Issue Volume 51 Issue 1

Publisher: ACM

Full text available:  pdf(5.97 MB)  digital edition Additional Information: [full citation](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 908, Downloads (12 Months): 2862, Citation Count: 0

10 [Merging path and gshare indexing in perceptron branch prediction](#)

David Tarjan, Kevin Skadron

September 2005 ACM Transactions on Architecture and Code Optimization (TACO), Volume 2 Issue 3

Publisher: ACM

Full text available:  pdf(476.21 KB)Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 3, Downloads (12 Months): 69, Citation Count: 0

We introduce the *hashed* perceptron predictor, which merges the concepts behind the gshare, path-based and perceptron branch predictors. This predictor can achieve superior accuracy to a path-based and a global perceptron predictor, previously ...

Keyw ords: Branch prediction, neural networks, two-level predictors

11 [Wireless MPLS: a new layer 2.5 micro-mobility scheme](#)

Kaouthar Sethom, Hossam Afifi, Guy Pujolle

October 2004 MobiWac '04: Proceedings of the second international workshop on Mobility management &amp; wireless access protocols

Publisher: ACM


Full text available:  pdf(480.36 KB)Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 24, Downloads (12 Months): 179, Citation Count: 1

In next generation wireless networks, mobile nodes will be equipped with multiple interfaces and will be able to take advantage of overlay networks. In such environment, global IP mobility solutions have to be optimized to handle micro-mobility management, ...

Keywords: 802.11, MPLS, bluetooth, handover performance, hipman, mobility management, wireless networking

## 12 [Relational joins on graphics processors](#)

 Bingsheng He, Ke Yang, Rui Fang, Mian Lu, Naga Govindaraju, Qiong Luo, Pedro Sander  
June 2008 SIGMOD '08: Proceedings of the 2008 ACM SIGMOD international conference on Management of data

Publisher: ACM

Full text available:  [pdf\(430.82 KB\)](#)


Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 38, Downloads (12 Months): 38, Citation Count: 0


We present a novel design and implementation of relational join algorithms for new-generation graphics processing units (GPUs). The most recent GPU features include support for writing to random memory locations, efficient inter-processor communication, ...

Keywords: graphics processors, join, parallel processing, primitive, relational database, sort

## 13 [A simple mechanism for capturing and replaying wireless channels](#)

 Glenn Judd, Peter Steenkiste  
August 2005 E-WIND '05: Proceedings of the 2005 ACM SIGCOMM workshop on Experimental approaches to wireless network design and analysis

Publisher: ACM

Full text available:  [pdf\(6.06 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 73, Downloads (12 Months): 485, Citation Count: 1

Physical layer wireless network emulation has the potential to be a powerful experimental tool. An important challenge in physical emulation, and traditional simulation, is to accurately model the wireless channel. In this paper we examine the possibility ...

Keywords: channel capture, emulation, wireless

## 14 [Ethane: taking control of the enterprise](#)

 Martin Casado, Michael J. Freedman, Justin Pettit, Jianying Luo, Nick McKeown, Scott Shenker  
October 2007 ACM SIGCOMM Computer Communication Review, Volume 37 Issue 4

Publisher: ACM

Full text available:  [pdf\(675.04 KB\)](#)


Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 55, Downloads (12 Months): 290, Citation Count: 0

This paper presents Ethane, a new network architecture for the enterprise. Ethane allows managers to define a single network-wide fine-grain policy, and then enforces it directly. Ethane couples extremely simple flow-based Ethernet switches with a centralized ...

Keywords: architecture, management, network, security

## 15 [Flicker: an execution infrastructure for tcb minimization](#)

 Jonathan M. McCune, Bryan J. Parno, Adrian Perrig, Michael K. Reiter, Hiroshi Isozaki  
April 2008 Eurosys '08: Proceedings of the 3rd ACM SIGOPS/EuroSys European Conference on

Computer Systems 2008

Publisher: ACM

Full text available:  pdf(322.80 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 53, Downloads (12 Months): 103, Citation Count: 0

We present Flicker, an infrastructure for executing security-sensitive code in complete isolation while trusting as few as 250 lines of additional code. Flicker can also provide meaningful, fine-grained attestation of the code executed (as well as its ...

Keyw ords: late launch, secure execution, trusted computing

#### 16 [Flicker: an execution infrastructure for tcb minimization](#)



Jonathan M. McCune, Bryan J. Parno, Adrian Perrig, Michael K. Reiter, Hiroshi Isozaki

April 2008 ACM SIGOPS Operating Systems Review, Volume 42 Issue 4

Publisher: ACM

Full text available:  pdf(322.80 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 53, Downloads (12 Months): 103, Citation Count: 0

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Keyw ords: late launch, secure execution, trusted computing

#### 17 [Ethane: taking control of the enterprise](#)



Martin Casado, Michael J. Freedman, Justin Pettit, Jianying Luo, Nick McKeown, Scott Shenker

August 2007 SIGCOMM '07: Proceedings of the 2007 conference on Applications, technologies, architectures, and protocols for computer communications

Publisher: ACM

Full text available:  pdf(675.04 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 55, Downloads (12 Months): 290, Citation Count: 0

This paper presents Ethane, a new network architecture for the enterprise. Ethane allows managers to define a single network-wide fine-grain policy, and then enforces it directly. Ethane couples extremely simple flow-based Ethernet switches with a centralized ...

Keyw ords: architecture, management, network, security

#### 18 [Reconciling zero-conf with efficiency in enterprises](#)



Chang Kim, Jennifer Rexford

December 2006 CoNEXT '06: Proceedings of the 2006 ACM CoNEXT conference

Publisher: ACM

Full text available:  pdf(132.39 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 2, Downloads (12 Months): 2, Citation Count: 0

A conventional enterprise or campus network comprises Ethernet-based IP subnets interconnect by routers. Although each subnet runs with minimal (or zero) configuration by virtue of Ethernet flat-addressing and self-learning capability, interconnecting ...

Keyw ords: IP, enterprise networking, ethernet, zero-configuration

## Overshadow: a virtualization-based approach to retrofitting protection in commodity operating systems

Xiaoxin Chen, Tal Garfinkel, E. Christopher Lewis, Pratap Subrahmanyam, Carl A. Waldspurger, Dai Boneh, Jeffrey Dvoskin, Dan R.K. Ports

March 2008 ASPLOS XIII: Proceedings of the 13th international conference on Architectural support for programming languages and operating systems

Publisher: ACM

Full text available:  [pdf\(272.32 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 89, Downloads (12 Months): 260, Citation Count: 0

Commodity operating systems entrusted with securing sensitive data are remarkably large and complex, and consequently, frequently prone to compromise. To address this limitation, we introduce a virtual-machine-based system called Overshadow that protects ...

Keywords: VMM, cloaking, hypervisors, memory protection, multi-shadowing, operating system virtual machine monitors

## 20 Evolving a language in and for the real world: C++ 1991-2006

### Bjarne Stroustrup

June 2007 HOPL III: Proceedings of the third ACM SIGPLAN conference on History of programming languages

Publisher: ACM

Full text available:  [pdf\(838.10 KB\)](#)

Additional Information: [full citation](#), [appendices and supplements](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 95, Downloads (12 Months): 960, Citation Count: 0

This paper outlines the history of the C++ programming language from the early days of its ISO standardization (1991), through the 1998 ISO standard, to the later stages of the C++0x revision of that standard (2006). The emphasis is on the ideals, constraints, ...





Keywords: C++, ISO, STL, evolution, history, language use, libraries, multi-paradigm programming, programming language, standardization

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